



Date: February 19, 2019

To: Thomas J. Bonfield, City Manager
Through: W. Bowman Ferguson, Deputy City Manager
From: Donald F. Greeley, Director, Water Management
Subject: 2019 Sewer Repair Project – Contract Award to Carolina Civilworks, Inc.

Executive Summary

The Department of Water Management (DWM) opened bids on January 31st, 2019 for the 2019 Sewer Repair project. The project includes sewer point repairs to the City's existing sewer collection system. This contract will support the on-going Cured In Place Pipe (CIPP) contracts and will address deficiencies in the existing system on a find-and-repair basis.

DWM recommends the contract be awarded to Carolina Civilworks, Inc., the lowest responsive and responsible bidder.

Recommendation

To authorize the City Manager to execute a contract with Carolina Civilworks, Inc. for the 2019 Sewer Repair Project in the amount of \$4,005,186.00;

To establish a contingency fund for the contract in the amount of \$400,000.00; and

To authorize the City Manager to negotiate change orders for the contract provided that the total contract cost does not exceed \$4,405,186.00.

Background

Repairing known defects within the City's sanitary sewer collection system is integral in maintaining compliance with the City's sewer collection permit. Through the use of annual inspections, maintenance records, and previously contracted sewer system evaluations DWM staff identifies sewer pipelines that require partial or full length pipeline replacement in addition to manholes that require repairs or complete replacement due to deterioration or failure. The deterioration of these sewer mains and manholes can be attributed to several factors including inflow and infiltration, root intrusion, age, corrosion, and ground settlement. The 2019 Sewer Repair Contract will address these deficiencies on a find-and-repair basis.

The City is currently administering two contracts to install a total of approximately 360,000 linear feet of CIPP to rehabilitate the existing gravity sewer collection system. As these contractors perform their work they identify sewer reaches where CIPP cannot be installed due to a structural defect, obstruction in the pipe, etc. The 2019 Sewer Repair Project will make the needed point repairs so that the CIPP contractors can return and perform their work.

Issues and Analysis

The DWM formally advertised the project for bid on December 14th, 2018. The project was bid as a unit price contract. Two bids were received on January 24th, 2018. A minimum of three (3)

bids is required to open bids so the project was re-advertised. Three bids were received on January 31st, 2019. The bid results are:

Contractor	Total Bid
Carolina Civilworks, Inc.	\$4,586,958.00
J.F. Wilkerson Contr. Co. Inc.	\$6,468,630.00
Bridgepoint Civil, LLC	\$8,282,699.00

The engineer's estimate for this project was \$4,000,000.00. When all bids for a construction project exceed the available funds, North Carolina state statute allows the owner to make reasonable changes to the plans and specifications in order to bring the contract price to within the available funds. The DWM has made changes to the specifications and reduced unit price quantities to reach a new contract price of \$4,005,186.00.

The DWM recommends contract award to Carolina Civilworks, Inc. as the lowest responsive and responsible bidder.

Alternatives

Alternative 1 - Do not go forward with the project. The sewer mains and manholes set to be repaired or replaced have some type of defect that warrants attention. By not going forward with the project and all these defects to remain the City risks a failure in the system and non-compliance with the Sewer Collection Permit.

Alternative 2 - Do not go forward with the project and complete the repairs with the City's Water/Sewer Maintenance Division (WSM) staff. Many of the sewer mains and manholes set to be replaced need to be addressed in a timely manner in order to support other contracts being administered by the City. WSM staff does not have the resources or availability to address all the necessary repairs. This approach would result in delayed contract schedules and could potentially result in a failure in the sewer collection system and non-compliance with the Sewer Collection Permit.

Financial Impact

Funding for this project has been programmed in the Water & Sewer CIP and is available in the following accounts:

Organization Code	Object Code	Project Code	Amount
4100P002	731000	P28SR	\$4,005,186.00
4100P002	731900	P28SR	\$400,000.00
TOTAL PROJECT AMOUNT			\$4,405,186.00

Equal Business Opportunity Summary

The Equal Opportunity/Equity Assurance Department reviewed the bid submitted by Carolina Civil Works of Raleigh, NC and determined that they are in compliance with the Ordinances to Promote Equal Business Opportunities in City of Durham Contracting.

M/W UBE REQUIREMENTS:

The goals for this project are MUBE 0% and WUBE 0%. There were no subcontracting opportunities for this project as stated by the project manager for the Department of Water Management.

WORKFORCE STATISTICS

Total Workforce:

Employment Category	Total Employees	Total Males	Total Females
Project Managers	5	5	0
Professional	0	0	0
Technical	6	6	0
Clerical	2	0	2
Labor	13	13	0
Total	26	24	2

Male:

Employment Category	White	Black	Hispanic	Asian or Pacific Islander	Indian or Alaskan Native	Two or More Races*
Project Manager	5	0	0	0	0	0
Professional	0	0	0	0	0	0
Technicians	6	0	0	0	0	0
Clerical	0	0	0	0	0	0
Labor	7	0	6	0	0	0
Total	18	0	6	0	0	0

Female:

Employment Category	White	Black	Hispanic	Asian or Pacific Islander	Indian or Alaskan Native	Two or More Races*
Project Manager	0	0	0	0	0	0
Professional	0	0	0	0	0	0
Technicians	0	0	0	0	0	0
Clerical	2	0	0	0	0	0
Labor	0	0	0	0	0	0
Total	2	0	0	0	0	0

